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Handbook of INDUSTRIAL SURFACTANTS

An International Guide to More Than 16,000 Products
by Tradename, Application, Composition & Manufacturer

Compiled by
Michael and Irene Ash

Gower

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foam 15 mm (0.1% aq., initial); toxicology: severe eye irritant; LD50 (oral, rat) 1.84 g/kg. **Igepal® CO-619.** [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-8 (7-8 EO); CAS 9016-45-9; nonionic; low foaming detergent, wetting agent, emulsifier, lubricant for metalworking; biodeg.; FDA compliance; pale yel. liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.05; visc. 230-260 cps; HLB 12.2; cloud pt. 72-82 F (1%); flash pt. > 200 F (PMCC); pour pt. 37 ± 2 F; surf. tens. 30 dynes/cm (0.01%); Ross-Miles foam 55 mm (0.1% aq., initial); 100% act.

Igepal® CO-620. [Rhône-Poulenc Surf.; Nonoxynol-8 (5-6 EO); CAS 9016-45-9; nonionic; detergent, wetting agent, emulsifier, surfactant used in heavy-duty liq. detergent compds.; biodeg.; FDA compliance; pale yel. liq., aromatic odor; sol. in water, xylene, dibutyl phthalate, perchloroethylene, ethanol, ethylene glycol; sp.gr. 1.05; visc. 180-280 cps; solid. pt. 31 F; HLB 12.6; pour pt. 36 F; cloud pt. 104-115 F (1% aq.); flash pt. (PMCC) > 200 F; surf. tens. 22 dynes/cm (0.01%); Ross-Miles foam 69 mm (0.1% aq., initial); 100% conc. DISCONTINUED.

Igepal® CO-630. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-9; CAS 9016-45-9; nonionic; detergent, wetting and rewetting agent, corrosion inhibitor, penetrant, emulsifier, dispersant for textile, paper, leather, household/industrial cleaners, agrics., paints, metal processing, emulsion cleaning; biodeg.; FDA, EPA compliance; almost colorless liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.06; visc. 225-300 cps; HLB 13.0; cloud pt. 126-133 F (1%); flash pt. > 200 F (PMCC); pour pt. 31 ± 2 F; surf. tens. 21 dynes/cm (0.01%); Ross-Miles foam 80 mm (0.1% aq., initial); toxicology: severe eye irritant; LD50 (oral, rat) 3 g/kg; 100% act.

Igepal® CO-660. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-10; CAS 9016-45-9; nonionic; detergent, wetting and rewetting agent, corrosion inhibitor, penetrant, emulsifier for textile, paper, leather, household/industrial cleaners, agrics., paints, metal processing, emulsion cleaning; biodeg.; FDA, EPA compliance; pale yel. liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.06; visc. 225-275 cps; HLB 13.2; cloud pt. 140-149 F (1%); flash pt. > 200 F (PMCC); pour pt. 46 ± 2 F; surf. tens. 31 dynes/cm (0.01%); Ross-Miles foam 82 mm (0.1% aq., initial); 100% act.

Igepal® CO-710. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-10-5; CAS 9016-45-9; nonionic; detergent, wetting and rewetting agent, corrosion inhibitor, penetrant, emulsifier for textile, paper, leather, household/industrial cleaners, agrics., paints, metal processing, emulsion cleaning; biodeg.; FDA, EPA compliance; pale yel. liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.06; visc. 240-300 cps; HLB 13.6; cloud pt. 158-165 F (1%); flash pt. > 200 F (PMCC); pour pt. 49 ± 2 F; surf. tens. 32 dynes/cm (0.01%); Ross-Miles foam 110 mm (0.1% aq., initial); 100% act.

Igepal® CO-720. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-12; CAS 9016-45-9; nonionic; detergent, wetting and rewetting agent, corrosion inhibitor, penetrant, emulsifier, dispersant for textile, paper, leather, household/industrial

cleaners, agrics., paints, metal processing, emulsion cleaning; biodeg.; FDA, EPA compliance; opaque liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.06; visc. 260-340 cps; HLB 14.2; flash pt. > 200 F (PMCC); pour pt. 62 ± 2 F; surf. tens. 34 dynes/cm (0.01%); Ross-Miles foam 110 mm (0.1% aq., initial); toxicology: severe eye irritant; LD50 (oral, rat) > 1.5 g/kg; 100% act.

Igepal® CO-730. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-13; CAS 9016-45-9; nonionic; detergent, dispersant, wetting agent, penetrant, emulsifier for industrial cleaners, metalworking fluids, agrics., formulations; effluent tolerant; high temp. and in high electrolyte media; biodeg.; FDA, EPA compliance; yel. liq., aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.07; visc. 450-550 cps; HLB 15.0; cloud pt. 203-212 F (1%); flash pt. > 200 F (PMCC); pour pt. 71 ± 2 F; surf. tens. 36 dynes/cm (0.01%); Ross-Miles foam 130 mm (0.1% aq., initial); toxicology: moderate eye irritant; LD50 (oral, rat) 2.5 g/kg; 100% act.

Igepal® CO-736. [Rhône-Poulenc Surf.; Nonoxynol-15; CAS 9016-45-9; nonionic; detergent, dispersant, wetting agent, penetrant, emulsifier for industrial cleaners; liq.; HLB 15.0; 80% act. DISCONTINUED.

Igepal® CO-850. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-20; CAS 9016-45-9; nonionic; detergent, wetting agent, dispersant, emulsifier for industrial cleaners, metalworking fluids, polyester waxing; latex stabilizer; demulsifier for crude petrol. oil emulsions; glass mold release agent; FDA compliance; pale yel. wax; aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.08 (50 C); HLB 16.0; cloud pt. > 212 F (1% aq.); flash pt. > 200 F (PMCC); pour pt. 91 ± 2 F; surf. tens. 39 dynes/cm (0.01%); Ross-Miles foam 120 mm (0.1% aq., initial); 100% act.

Igepal® CO-880. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-20; CAS 9016-45-9; nonionic; detergent, wetting agent, dispersant, emulsifier for industrial cleaners, polyester resins, agrics.; latex stabilizer; demulsifier for crude petrol. oil emulsions; also textile scouring, solubilizer; FDA, EPA compliance; pale yel. wax; aromatic odor; sol. in naphtha, xylene, butyl Cellulosolve, perchloroethylene, ethanol, water; sp.gr. 1.08 (50 C); HLB 17.2; cloud pt. > 212 F (1% aq.); flash pt. > 200 F (PMCC); pour pt. 109 ± 2 F; surf. tens. 43 dynes/cm (0.01%); Ross-Miles foam 120 mm (0.1% aq., initial); toxicology: minimal eye irritant; LD50 (oral, rat) > 1.6 g/kg; 100% act.

Igepal® CO-885. [Rhône-Poulenc Surf.; Rhône-Poulenc France] Nonoxynol-30; CAS 9016-45-9; nonionic; detergent, wetting agent, dispersant, emulsifier for industrial cleaners, polyester resins; latex stabilizer; demulsifier for crude petrol. oil emulsions; also textile scouring, solubilizer; FDA compliance; pale yel. wax; aromatic odor; sp.gr. 1.09; solid. pt. 28 F; HLB 17.2; cloud pt. clear at 212 F (1% aq.); flash pt. > 200 F (PMCC); pour pt. 34 ± 2 F; 70% act.

Igepal® CO-890. [Rhône-Poulenc Surf.; Nonoxynol-40; CAS 9016-45-9; nonionic; emulsifier, stabilizer, wetting agent, dyeing assistant for plastic, agrics., latexes, floor polishes; sol. in FDA, EPA compliance; off-wax; aromatic odor; sol. in ethanol,

Tradenames: Ablunol NP6; Alkasurf® NP-6; Arkopal N060; Carsonon® N-6; Cedepal CO-530; Chemax NP-6; Dehydrophen PNP 4; Dehydrophen PNP 6; Desonic® 6N; Emulphor® 6962; Emulgator U6; Ethal NP-6; Ethylan® 77; Etophan 106; Hestoxide NP-6; Hostopal N-060; Hostopal N-060R; Hyonic NP-60; Icanol NP-6; Igepal® CO-530; Macol® NP-6; Makon® 6; Marlophen® 86N; Marlophen® 86NS; Naxotene NT-60; Nissan Nonion NS-206; Norfox® NP-6; NP-55-60; Poly-Tergent® B-200; Polystep® P-2; Prox-onic NP-06; Remcopal 666; Renex® 697; Rewopal® HV 6; Rexol 256; Sellig N 6 100; Serox® NNP 6; Siponic® NP-6 (see Igepal® CO-530); Surfonic® N-60; Sympetonic NP6; Syntopon A; T-Dex® N-6; Tergitol® NP-6; Trycol® 6962; Trycol® NP-6

Nonoxynol-7 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 27177-05-5; 37205-87-1 (generic); EINECS 248-292-0

Synonyms: PEG-7 nonyl phenyl ether; POE (7) nonyl phenyl ether

Tradenames: Desonic® TN; Etophan 107; Icanol NP-7; Makon® 7; Marlophen® 87N; Norfox® NP-7; Rexol 257; Serox® NNP 7; Sympetonic NP7; Tergitol® NP-7; Tergitol® NP-27; Trycol® 6963; Trycol® NP-7

Nonoxynol-8 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic); 26571-11-9; 27177-05-5; EINECS 248-293-6; 247-816-5

Synonyms: PEG-8 nonyl phenyl ether; POE (8) nonyl phenyl ether; PEG 400 nonyl phenyl ether

Tradenames: Ablunol NP8; Alkasurf® NP-8; Arkopal N080; Carsonon® N-8; Cedepal CO-610; Dehydrophen PNP 8; Ethylan® TU; Etophan 108; Hostopal N-080; Igepal® CO-610; Macol® NP-8; Makon® 8; Marlophen® 88N; Nikkol NP-7.5; NP-55-80; NP-55-85; Nutrol 611; Polystep® F-3; Quimipol ENF 80; Remcopal 349; Renex® 688; Rewopal® HV 8; Rexol 258; Sellig N 100; Serox® NNP 8.5; Siponic® NP-8 (see Alkasurf® NP-8); Surfonic® N-85; Sympetonic NPK; Syntopon B; T-Dex® N-8; Tergitol® NP-8; Tetric® N

Tradenames containing: Surfonic® HDL

Nonoxynol-9 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 26571-11-9; 37205-87-1 (generic); 14608-72-4

Synonyms: PEG-9 nonyl phenyl ether; POE (9) nonyl phenyl ether; PEG 650 nonyl phenyl ether

Tradenames: Ablunol NP9; Arkopal N090; Caloxylate N-9; Carsonon® N-9; Cedepal CO-630; Chemax NP-9; Desonic® 9N; Emulphor NP9; Emulgator U9; Ethal NP-9; Ethylan® BCP; Ethylan® EED; Etophan 109; Gralonic N-95; Hestoxide NP-9; Hostopal N-090; Hyonic NP-90; Icanol NP-9; Igepal® CO-630; Igepal® FN-5 (formerly Terafor FN-5); Macol® NP-9.5; Marlophen® 89N; Marlophen® 1028N; Norfox® NP-9; NP-55-90; Nutrol 600; Poly-Tergent® B-300; Prox-onic NP-09; Remcopal 29; Remcopal 6110; Renex® 698; Rewopal® HV 9; Rexol 259; Sellig N 100; Siponic® NP-9 (see Igepal® CO-630); Siponic® NP-9.5 (see Igepal® CO-630); Syn Pac® 905; Sympetonic NP9; Syntopon C; Tergitol® NP-9; Tergitol®

TP-9; Tetric® N9; Triton® N-101; Trycol® 6964; Trycol® NP-9

Tradenames containing: Maskenite DOS-70N

Nonoxynol-10 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 27177-05-5; 37205-87-1 (generic); 27942-26-5; EINECS 248-294-1

Synonyms: PEG-10 nonyl phenyl ether; POE (10) nonyl phenyl ether; PEG 500 nonyl phenyl ether

Tradenames: Ablunol NP10; Akypox® NP-10; Akypox® NP 105; Alkasurf® NP-10; Arkopal N100; Carsonon® N-10; Cedepal CO-710; Chemax NP-10; Dehydrophen PNP 10; Desonic® 10N; Etophan 110; Emulphor® 286; Hestoxide NP-10; Hostopal N-100; Hyonic NP-100; Hyonic PE-100; Icanol NP-10; Igepal® CO-660; Igepal® CO-710; Lutsen® AP 10; Makon® 10; Marlophen® 810N; Naxotene NT-100; Nikkol NP-10; Poly-Tergent® B-315; Polystep® T-4; Prox-onic NP-010; Renex® 690; Rewopal® HV 10; Rexol 2510; Sellig N 100; Serox® NNP 10; Simulcol 103D NP; Siponic® NP-10 (see Igepal® CO-660); Surfonic® N-95; Surfonic® N-100; Surfonic® N-102; Sympetonic NP10; Syntopon D; T-Dex® N-9.5; Tergitol® NP-10; Tergitol® NPK; Tetric® N10; Trycol® 6974; Witconol NP-100

Tradenames containing: Surfonic® HDL-1

Nonoxynol-11 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonyms: PEG-11 nonyl phenyl ether; POE (11) nonyl phenyl ether

Tradenames: Alkasurf® NP-11; Arkopal N110; Carsonon® N-11; Desonic® 11N; Hostopal N-110; Hyonic NP-110; Igepal® FN-11 (formerly Terafor FN-11); Macol® NP-11; Makon® 11; Neutrons® 656; Norfox® NP-11; Nutrol 656; Poly-Tergent® B-550; Remcopal F01NP; Rexol 2511; Sellig N 1100; Serox® NNP 11; T-Dex® N-10.5; Tetric® N11; Triton® N-111; Trycol® 6965; Trycol® NP-11

Nonoxynol-12 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonyms: PEG-12 nonyl phenyl ether; POE (12) nonyl phenyl ether; PEG 600 nonyl phenyl ether

Tradenames: Ablunol NP12; Alkasurf® NP-12; Carsonon® N-12; Dehydrophen PNP 12; Desonic® 12N; Emulgator U12; Ethylan® DP; Etophan 112; Hestoxide NP-12; Hyonic NP-120; Icanol NP-12; Igepal® CO-720; Macol® NP-12; Makon® 12; Marlophen® 812N; Nissan Nonion NS-212; Polystep® F-5; Remcopal 3712; Renex® 682; Sellig N 12 100; Serox® NNP 12; Sarnul EN 228; Surfonic® N-120; Sympetonic NP12; T-Dex® N-12; Tetric® N12; Trycol® 6953

Nonoxynol-13 (CTFA)

CAS 9016-45-9 (generic); 26027-38-3 (generic); 37205-87-1 (generic)

Synonyms: PEG-13 nonyl phenyl ether; POE (13) nonyl phenyl ether

Tradenames: Arkopal N130; Desonic® 13N; Hostopal N-130; Remcopal 3515; Renex® 679; Serox® NNP 13; Siponic® NP-13 (see Igepal® CO-720); Surfonic® N-130; Sympetonic NP13; Syntopon E; Tergitol® NP-13; Tetric® N13;